

Notice of Allowability

Application No.

09/507,236

Examiner

Inder P. Mehra

Applicant(s)

ELLIS, JOHN G.

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment dated 8/31/07.
2. ☒ The allowed claim(s) is/are 1,20,5-13, and 15-19 (Renumbered as 1-16) respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 8/31/2007
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 9/17/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This office action is in response to amendment dated: 8/31/2007. Based on this amendment, claims 1, 5-13, and 15-20 are pending. Claims 2-4 and 14 were cancelled.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 8/31/07 has been entered.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Farzad E. Amini, Attorney, Reg. No. 42,261 on 9/17/07.

The application has been amended as follows:

Refer to claim 15, which has been amended, as follows:

Refer to limitation , in line 8.

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Limitation "AAL-2 CID, of a plurality of AAL-2 channels" has been replaced by "---AAL-2 CID on a call by call basis of a plurality of AAL-2 channels---

Refer to limitation in lines 12-13.

Limitation "of said UNI." has been replaced by "---of said UNI, wherein during call set-up, each AAL-2 CID is individually set up and signaled as the respective VP/VC within virtual UNI---

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 8/31/2007 was filed . The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

4. Claim 1, 5-13, and 15-20 are allowed.

REASONS FOR ALLOWANCE

5. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach or suggest directly, or indirectly the following limitations in combinations with other limitations of the claims, as follows:

As recited by claim 1,

"dynamically establishing a plurality, of ATM adaptation layer 2 (AAL2) channel identifiers (C1Ds) on a call-by-call basis using an ATM standards-based call control signaling protocol by mapping each of the CIDs, for submultiplexed cells that will be within an AAL2 stream in a single virtual channel connection, VCC, that connects a network edge device to a network access gateway, to a respective

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virtual path/virtual channel (VP/VC) within a virtual user network interface (UNI) of the protocol and wherein during call set-up, each of the plurality of CIDs is individually set up and signaled as the respective VP/VC within a virtual UNI".

As recited by claim 5,

"mapping a plurality of ATM adaptation layer 2 (AAL2) channel identifiers (CIDs) of plurality of channels that will be within an AAL2 stream in a single virtual channel connection (VCC), to a plurality virtual path/virtual channel (VP/VC), respectively, within a user network interface, UNI, of a standards-based ATM call control protocol and wherein, during call set-up, each of the plurality, of CIDs is individually set up and signaled as a respective one of the plurality of VP/VC, within the UNI".

As recited by claim 11,

"wherein the originating network edge device maps a respective virtual path identifier/virtual circuit (VPI/ VCI) within a virtual user network interface that is referenced in a cell header in accordance with the ATM forum promulgated signaling protocol, to a AAL2each of a plurality AAL2 channel identifiers (CIDs) of a stream of AAL2 sub-cells in a single virtual channel connection (VCC) and wherein each of the plurality of CIDs is individually set up and signaled as the respective VPI/VCI, formatted in accordance with said ATM Forum promulgated signaling protocol, to said one of the network access gateways".

As recited by claim 15,

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“means for setting up and signaling each AAL2 CID on a call-by-call basis of a plurality of AAL2 channels that are in an AAL2 stream within a single virtual channel connection between the network edge device and a network access gateway, individually as a respective VP/VC that is associated with a UNI port UNI's virtual gateway of said UNI”, wherein during call set-up, each AAL-2 CID is individually set up and signaled as the respective VP/VC within virtual UNI”.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Inder Pal Mehra 9/17/07

Inder P Mehra
Examiner
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JOSEPH FEILD
SUPERVISORY PATENT EXAMINER